LSC MODEL 1022



Let our vast experience, knowledge and superior equipment protect and optimize the performance of your recovery boiler.





MODEL 1022 IS THE #1 AUTOMATIC BLACK LIQUOR DIVERT SYSTEM WORLDWIDE!

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Advanced Divert Logic Provides the Ultimate in Reliability & Safety

- Accurate "dual" solids measurement, combined with the ultimate in dependability
- Automatically will remove a refractometer from operation when deemed necessary
- "Smart Wash Technology" plus, full divert capabilities maintained during an automatic prism wash
- Internal display screen for settings, diagnostics/troubleshooting and history file
- Extensive reporting capabilities all changes/events logged with both date and time
- Intelligent fluorescent display (external) located on enclosure or remotely on the operator console

- Exclusive "first-out"/sequence report to aid in understanding any possible R.B. "liquor diversions"
- Hard copy option (printer available) of all settings, alarms, and logged events/history
- · No simple arbitrary "disable" mode
- All automatic "divert" features are retained during single refractometer operation
- Complies with all recommendations of Black Liquor Recovery Boiler Advisory Committee (BLRBAC)

OPERATIONAL SPECIFICATIONS

RANGE: ACCURACY: LIQUOR TEMP Maximum: LIQUOR TEMP Saving? TEMPERATURE COMP: LIQUOR LINE SIZE: LINE PRESSURE: ANALOG OUTPUT (8): PRINTER INTERFACE: ENCLOSURE: ENCLOSURE: 55-75, 55-80, 55-89, 85-88, 4-0.5 % of Range 150° C Automatic, Electronic Any Pipe Line Size Up to 150 psi, as standard 4-20 mA isolared 4-20 mA isolared Output Available NEMA 4 X 58 Will Mount 115/230 VAC 50/60 HZ Approximately 50 WATTS

DISCRETE ALARM OUTPUTS

Liquor Divert Accomplished Liquor Divert Valve Failure 29k Solids Differential "A" Low Solids Alarm "B" Low Solids Alarm Refract. (B) Mulfunction Refract. (B) Mulfunction A Unit Prism Wash Failure B Unit Prism Wash Failure B Unit Prism Wash Failure B Unit Prism Wash Failure System Mulfunction System Mulfunction

Inputs External Source

Auxiliary Divert Command Divert Valve Position Gate Adaptory Position

UNINTERRUPTIBLE POWERSOURCE IS ADVISED

Because of continuous research and development, with a loren interest in improving our product, Liquid Solids Control, Inc. reserves the right to make any model revisions and/or changes to these specifications, without notice.

MICRO PROCESSOR FUNCTIONS & RESPONSIBILITIES

The 'hean' of the Model 1022 system is the Contral Processing Unit (CPU). Through the cambination of LSC's wat experience with modern technology, dynamic and programics 'franc-ver' foratree emerged. Provide user friendly nofware doipped with on-screen propringing allows make access to all information in the programming/diffusionic model and the processor enclosure. Relandant power supplies provide a secure power source to the CPU, anuming maximum up time for the system. In any case, failure of the CPU will result only in a "failad" condition.

CPU RESPONSIBILITIES

- Providing output signal to the divert valve... or burner management system
- · Monitoring the A & B Refractometers
- Self-diagnostic/troubleshooting

- Automatically deciding dual or single refractometer operation
- · "Smart" prism wash cycle
- Functional/operational alarms
- Setting/event/history memory





BLACK LIQUOR % SOLIDS MEASUREMENT

Utilizing and incorporating "field provent/inter provent 'LSC [In Line Seming Heads and In Line piping hardware, the LSC Model 1022 reliably measure Black Lapoor Davided Solids. Coupled with the specially designed infractometer decrotosics, precise and accounte laboration of the special seminary of the anti-accounter laboration of the special seminary seminary seminary

"SMART WASH TECHNOLOGY" PRISM WASH LOGIC



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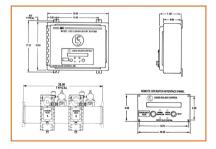


HISTORY & DIAGNOSTICS

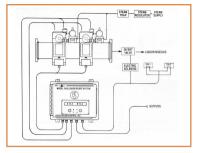
Settings, events and abnormal situations are displayed by the programming / diagnostics module and/or operator interface panel for quick and cessy referance. Numerous display screens provide pertinent information, data and events that are time and date tagged. (History report - Figure 1) (Referactmenter diagnostics - Figure 2)



DIMENSIONAL INFORMATION



SYSTEM CONFIGURATION





GATE ADAPTOR

A highly cost effective "Black Liquor Service device" Designed to safely isolate the sensor to maintain, repair or replace it, with out interrupting the process

The LSC gate adaptor (solation valve) provides a means for simple and quick monval of an LSC In-Line Sensing Head from an active liquor line while insuring stefty. This dedicated unt eliminates the need for costly "By-Pass-Loops", or an unscheduled liquor line shutdown to allow maintenance or calibration. A device of this type is specifically recommended by B.L.R.B.A.C. as they are against by-pass-loops.

The gate adaptor provides the option of externally locking it with a pad lock which gauruntees positive visual and physical indication of locked "fully open" or "fully closed" The lock can not be employed if the gate is less than 100%, open/closed. Proper switch contacts are provided so the model 1022 to indicate closeing of the gate adaptor which automatically puts that unit out of envice by going into 'single operation' mode.

PIONEER & LEADER OF RELIABLE & EFFECTIVE AUTOMATIC LIQUOR DIVERT SYSTEMS



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